Presentation Series: 2019 - 2020

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EARLY-AGE FIBER-REINFORCED CONCRETE PROPERTIES FOR OVERLAYS (MPC 18-353)

DATES: Thursday, November 7, 2019
TIME: 9:30-10:30 AM, CST *(8:30-9:30 AM MT)*

DELIVERY: Webinar
REGISTRATION DEADLINE: November 4, 2019

DESCRIPTION:

Fiber-reinforced concrete (FRC) has been used for concrete pavement overlays for a few decades. It is well documented to improve performance over unreinforced plain concrete in the aspects related to crack initiation, and crack propagation. When selecting an appropriate fiber-reinforced concrete for the design of thin overlays, the flexural residual strength is the primary design criteria used. One major challenge with the FRC industry and use in pavements is that the test does not specify when (age of overlay) these tests should be performed. It was hypothesized that the FRC properties change with age and that not having a specified age for the test to be performed would result in variable performance in the field.

TARGET AUDIENCE:

This presentation will be beneficial for personnel in materials, research, planning, design, construction, specification writers and maintenance personnel involved in decision-making.

PRESENTER:

Dr. Amanda Bordelon, Ph.D., PE, is an Assistant Professor at Utah Valley University. She received her B.S., M.S. and Ph.D. degrees in Civil and Environmental Engineering from the University of Illinois at Urbana. Her main area of expertise is in fiber-reinforced concrete pavements. Research topics include: fiber-reinforced concrete, concrete pavement design, ultra-thin whitetopping (concrete overlay bonded to asphalt), fracture mechanics, and x-ray CT imaging.

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